

FIG. 2

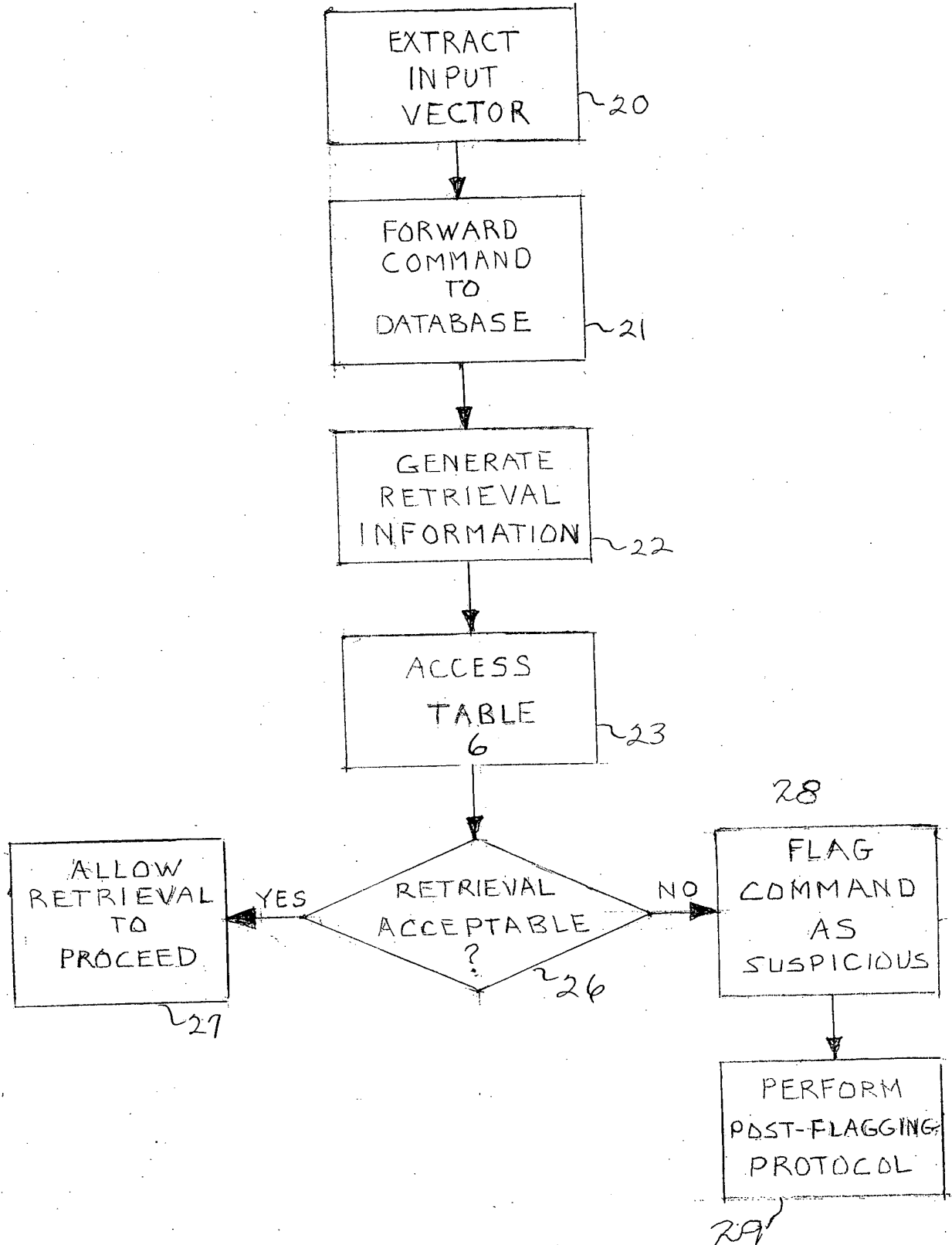


FIG. 3

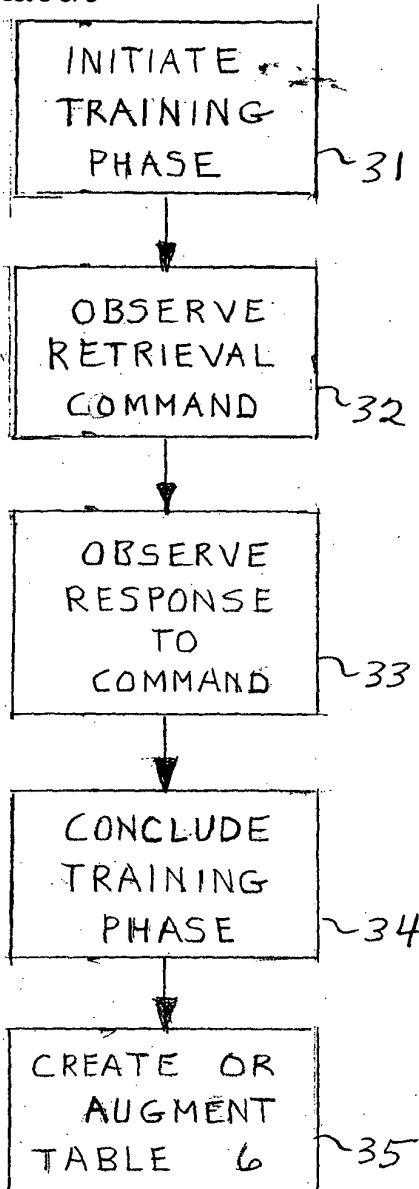


FIG. 4

FROM TRAINING PHASE

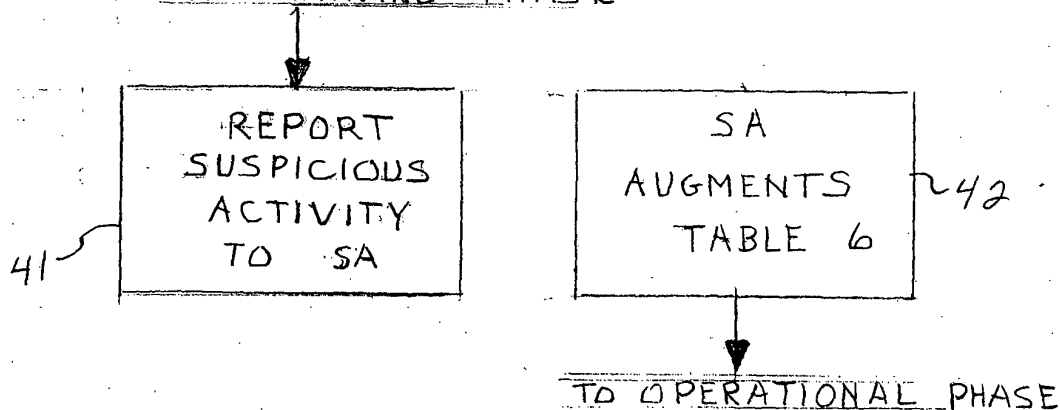


Fig. 5

ENTRY #	INPUT VECTOR	RETRIEVAL INFORMATION
1	PRESENT COMMAND	5 ROWS 3 COLUMNS COLUMNS A, J, AND K } RETRIEVAL VECTOR $S = 2000 \text{ ROWS / SECOND}$ $D = 2300 \text{ COLUMNS / SECOND}$
2	NONE	RATE OF RETRIEVING ROWS WAS 2000 ROWS / SECOND ACROSS ALL COMMANDS
3	$L_1 F_1 A_1$	$\overbrace{5 \text{ ROWS, } 3 \text{ COLUMNS}}^{\text{RETRIEVAL VECTOR 1}} - 963 \text{ OCCURRENCES}$ $\overbrace{7 \text{ ROWS, } 2 \text{ COLUMNS}}^{\text{RETRIEVAL VECTOR 2}} - 51 \text{ OCCURRENCES}$ $S = 1.1 \text{ ROW / SECOND}$ $D = 2.3 \text{ COLUMNS / SECOND}$

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FIG. 6

ENTRY #	INPUT VECTOR	RULES
1	NONE	RULE 5: NO MORE THAN 1000 ROWS/SEC. CAN EVER BE RETRIEVED BY ANYBODY
2	$L_1 F_1 A_1$	RULE 1: BETWEEN 4 AND 6 ROWS; AND BETWEEN 2 AND 4 COLUMNS ARE ACCEPTABLE RULE 2: BETWEEN 6 AND 8 ROWS; AND BETWEEN 1 AND 3 COLUMNS ARE ACCEPTABLE RULE 3: S BETWEEN 1.0 AND 1.2 IS ACCEPTABLE RULE 4: D BETWEEN 2.2 AND 2.4 IS ACCEPTABLE
3	$L_1$	RULE 6: NO RETRIEVALS ARE ALLOWED BETWEEN 6 P.M. AND MIDNIGHT UNLESS RULE 7 IS SATISFIED
4	$F_1$	RULE 7: D LESS THAN 10/MINUTE